

01PE 112

Errors Corrected by the STIC Systems Branch

Serial Number: 09/826,115

ENTERED

CRF Processing Date: 4/18/2001  
Edited by: AV  
Verified by: AV (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatonIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: Sequence 7 - corrected C2227 response

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

OIPE

## RAW SEQUENCE LISTING

DATE: 04/18/2001

PATENT APPLICATION: US/09/826,115

TIME: 16:42:46

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04182001\I826115.raw

Does Not Comply  
Corrected Diskette Needed

4 <110> APPLICANT: Chang, Gwong-Jen J  
6 <120> TITLE OF INVENTION: Nucleic Acid Vaccines for Prevention of  
7 Flavivirus Infection  
9 <130> FILE REFERENCE: 14114.0332U3  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/826,115  
C--> 11 <141> CURRENT FILING DATE: 2001-04-04  
11 <150> PRIOR APPLICATION NUMBER: pct/us99/12298  
12 <151> PRIOR FILING DATE: 1999-06-03  
14 <150> PRIOR APPLICATION NUMBER: 09/701,536  
15 <151> PRIOR FILING DATE: 2000-11-29  
17 <150> PRIOR APPLICATION NUMBER: 60/087,908  
18 <151> PRIOR FILING DATE: 1998-06-04  
20 <160> NUMBER OF SEQ ID NOS: 31  
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 48  
26 <212> TYPE: DNA  
27 <213> ORGANISM: Artificial Sequence  
29 <220> FEATURE:  
30 <223> OTHER INFORMATION: Description of artificial sequence; note =  
31 synthetic construct  
33 <221> NAME/KEY: CDS  
34 <222> LOCATION: (25)...(48)  
36 <221> NAME/KEY: misc\_feature  
37 <222> LOCATION: 1-48  
38 <223> OTHER INFORMATION: Amplimer 14DV389  
40 <400> SEQUENCE: 1  
41 cttggtacct ctagagccgc cgcc atg ggc aga aag caa aac aaa aga 48  
42 Met Gly Arg Lys Gln Asn Lys Arg  
43 1 5  
46 <210> SEQ ID NO: 2  
47 <211> LENGTH: 8  
48 <212> TYPE: PRT  
49 <213> ORGANISM: Artificial Sequence  
51 <220> FEATURE:  
52 <223> OTHER INFORMATION: Description of artificial sequence; note =  
53 synthetic construct  
55 <400> SEQUENCE: 2  
56 Met Gly Arg Lys Gln Asn Lys Arg  
57 1 5  
59 <210> SEQ ID NO: 3  
60 <211> LENGTH: 50  
61 <212> TYPE: DNA  
62 <213> ORGANISM: Artificial Sequence  
64 <220> FEATURE:  
65 <223> OTHER INFORMATION: Description of artificial sequence; note =  
66 synthetic construct

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```

68 <221> NAME/KEY: misc_feature
69 <222> LOCATION: 1-50
70 <223> OTHER INFORMATION: Amplimer cl4DV2453
72 <400> SEQUENCE: 3
73 ttttcttttg cggccgctca aacttaagca tgcacattgg tcgctaagaa      50
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 48
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of artificial sequence; note =
82     synthetic construct
84 <221> NAME/KEY: CDS
85 <222> LOCATION: (25)...(48)
87 <221> NAME/KEY: misc_feature
88 <222> LOCATION: (1)...(48)
89 <223> OTHER INFORMATION: Amplimer YFDV389
91 <400> SEQUENCE: 4
92 cttggtacct ctagagccgc cgcc atg cgt tcc cat gat gtt ctg act      48
93                               Met Arg Ser His Asp Val Leu Thr
94                               1             5
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 8
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Description of artificial sequence; note =
104     synthetic construct
106 <400> SEQUENCE: 5
107 Met Arg Ser His Asp Val Leu Thr
108 1             5
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 41
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of artificial sequence; note =
117     synthetic construct
119 <221> NAME/KEY: misc_feature
120 <222> LOCATION: 1-41
121 <223> OTHER INFORMATION: Amplimer cYFDV2452
123 <400> SEQUENCE: 6
124 ttttcttttg cggccgctca cgccccaact cctagagaaa c      41
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 51
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of artificial sequence; note =

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133      synthetic construct
135 <221> NAME/KEY: CDS
W--> 136 <222> LOCATION: (25)...(54)
138 <221> NAME/KEY: misc_feature
W--> 139 <222> LOCATION: 1-5451
140 <223> OTHER INFORMATION: Amplimer SLEDV410
142 <400> SEQUENCE: 7
143 cttggtacct ctagagccgc cgcc atg tct aaa aaa aga gga ggg acc aga      51
144                               Met Ser Lys Lys Arg Gly Gly Thr Arg
145                               1             5
148 <210> SEQ ID NO: 8
149 <211> LENGTH: 9
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of artificial sequence; note =
155     synthetic construct
157 <400> SEQUENCE: 8
158 Met Ser Lys Lys Arg Gly Gly Thr Arg
159 1             5
161 <210> SEQ ID NO: 9
162 <211> LENGTH: 38
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of artificial sequence; note =
168     synthetic construct
170 <221> NAME/KEY: misc_feature
171 <222> LOCATION: 1-38
172 <223> OTHER INFORMATION: Amplimer cSLEDV2449
174 <400> SEQUENCE: 9
175 ttttcttttg cggcgctta ggcttgcaag ctggttg      38
177 <210> SEQ ID NO: 10
178 <211> LENGTH: 7500
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of artificial sequence; note =
184     synthetic construct
186 <221> NAME/KEY: CDS
187 <222> LOCATION: (916)...(3009)
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: 1-7500
191 <223> OTHER INFORMATION: pCDJE 2-7
193 <400> SEQUENCE: 10
194 gacggatcgg gagatctccc gatcccctat ggtcgactct cagtacaatc tgctctgatg      60
195 ccgcatagtt aagccagtat ctgctccctg cttgtgtgtt ggaggtcgct gagtagtgcg      120
196 cgagcaaaat ttaagctaca acaaggcaag gcttgaccga caattgcatg aagaatctgc      180
197 ttagggttag gcgttttgcg ctgcttcgcg atgtacgggc cagatatagc cgttgacatt      240

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```

198 gattattgac tagttattaa tagtaatcaa ttacgggggtc attagtticat agcccatata 300
199 tggagttccg cgttacataa cttacggtaa atggcccgcg tggctgaccg cccaacgacc 360
200 cccgcccatt gacgtcaata atgacgtatg ttcccatagt aacgccaata gggactttcc 420
201 attgacgtca atgggtggac tatttacggt aaactgcca cttggcagta catcaagtgt 480
202 atcatatgcc aagtacgccc cctattgacg tcaatgacgg taaatggccc gcctggcatt 540
203 atgcccagta catgacctta tgggactttc ctacttggca gtacatctac gtattagtca 600
204 tcgctattac catggtgatg cggttttggc agtacatcaa tgggcgtgga tagcggtttg 660
205 actcacgggg atttccaagt ctccacccca ttgacgtcaa tgggagtttg ttttggcacc 720
206 aaaatcaacg ggactttcca aaatgtcgta acaactccgc ccattgacg caaatgggog 780
207 gtaggcgtgt acgggtggag gtctatataa gcagagctct ctggctaact agagaaccca 840
208 ctgcttactg gcttatcgaa attaatacga ctactatag ggagacccaa gcttgggtacc 900
209 gagctcgccg ccgcc atg ggc aga aag caa aac aaa aga gga gga aat gaa 951
210 Met Gly Arg Lys Gln Asn Lys Arg Gly Gly Asn Glu
211 1 5 10
213 ggc tca atc atg tgg ctc gcg agc ttg gca gtt gtc ata gct tgt gcg 999
214 Gly Ser Ile Met Trp Leu Ala Ser Leu Ala Val Val Ile Ala Cys Ala
215 15 20 25
217 gga gcc atg aag ttg tcg aat ttc cag ggg aag ctt ttg atg acc atc 1047
218 Gly Ala Met Lys Leu Ser Asn Phe Gln Gly Lys Leu Leu Met Thr Ile
219 30 35 40
221 aac aac acg gac att gca gac gtt atc gtg att ccc acc tca aaa gga 1095
222 Asn Asn Thr Asp Ile Ala Asp Val Ile Val Ile Pro Thr Ser Lys Gly
223 45 50 55 60
225 gag aac aga tgc tgg gtc cgg gca atc gac gtc ggc tac atg tgt gag 1143
226 Glu Asn Arg Cys Trp Val Arg Ala Ile Asp Val Gly Tyr Met Cys Glu
227 65 70 75
229 gac act atc acg tac gaa tgt cct aag ctt acc atg ggc aat gat cca 1191
230 Asp Thr Ile Thr Tyr Glu Cys Pro Lys Leu Thr Met Gly Asn Asp Pro
231 80 85 90
233 gag gat gtg gat tgc tgg tgt gac aac caa gaa gtc tac gtc caa tat 1239
234 Glu Asp Val Asp Cys Trp Cys Asp Asn Gln Glu Val Tyr Val Gln Tyr
235 95 100 105
237 gga cgg tgc acg cgg acc agg cat tcc aag cga agc agg aga tcc gtg 1287
238 Gly Arg Cys Thr Arg Thr Arg His Ser Lys Arg Ser Arg Arg Ser Val
239 110 115 120
241 tcg gtc caa aca cat ggg gag agt tca cta gtg aat aaa aaa gag gct 1335
242 Ser Val Gln Thr His Gly Glu Ser Ser Leu Val Asn Lys Lys Glu Ala
243 125 130 135 140
245 tgg ctg gat tca acg aaa gcc aca cga tat ctc atg aaa act gag aac 1383
246 Trp Leu Asp Ser Thr Lys Ala Thr Arg Tyr Leu Met Lys Thr Glu Asn
247 145 150 155
249 tgg atc ata agg aat cct ggc tat gct ttc ctg gcg gcg gta ctt ggc 1431
250 Trp Ile Ile Arg Asn Pro Gly Tyr Ala Phe Leu Ala Ala Val Leu Gly
251 160 165 170
253 tgg atg ctt ggc agt aac aac ggt caa cgc gtg gta ttt acc atc ctc 1479
254 Trp Met Leu Gly Ser Asn Asn Gly Gln Arg Val Val Phe Thr Ile Leu
255 175 180 185
257 ctg ctg ttg gtc gct ccg gct tac agt ttt aat tgt ctg gga atg ggc 1527
258 Leu Leu Leu Val Ala Pro Ala Tyr Ser Phe Asn Cys Leu Gly Met Gly

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259	190	195	200	
261	aat cgt gac ttc ata gaa gga gcc agt gga gcc act tgg gtg gac ttg	1575		
262	Asn Arg Asp Phe Ile Glu Gly Ala Ser Gly Ala Thr Trp Val Asp Leu			
263	205 210 215 220			
265	gtg ctg gaa gga gat agc tgc ttg aca atc atg gca aac gac aaa cca	1623		
266	Val Leu Glu Gly Asp Ser Cys Leu Thr Ile Met Ala Asn Asp Lys Pro			
267	225 230 235			
269	aca ttg gac gtc cgc atg att aac atc gaa gct agc caa ctt gct gag	1671		
270	Thr Leu Asp Val Arg Met Ile Asn Ile Glu Ala Ser Gln Leu Ala Glu			
271	240 245 250			
273	gtc aga agt tac tgc tat cat gct tca gtc act gac atc tcg acg gtg	1719		
274	Val Arg Ser Tyr Cys Tyr His Ala Ser Val Thr Asp Ile Ser Thr Val			
275	255 260 265			
277	gct cgg tgc ccc acg act gga gaa gcc cac aac gag aag cga gct gat	1767		
278	Ala Arg Cys Pro Thr Thr Gly Glu Ala His Asn Glu Lys Arg Ala Asp			
279	270 275 280			
281	agt agc tat gtg tgc aaa caa ggc ttc act gac cgt ggg tgg ggc aac	1815		
282	Ser Ser Tyr Val Cys Lys Gln Gly Phe Thr Asp Arg Gly Trp Gly Asn			
283	285 290 295 300			
285	gga tgt gga ctt ttc ggg aag gga agc att gac aca tgt gca aaa ttc	1863		
286	Gly Cys Gly Leu Phe Gly Lys Gly Ser Ile Asp Thr Cys Ala Lys Phe			
287	305 310 315			
289	tcc tgc acc agt aaa gcg att ggg aga aca atc cag cca gaa aac atc	1911		
290	Ser Cys Thr Ser Lys Ala Ile Gly Arg Thr Ile Gln Pro Glu Asn Ile			
291	320 325 330			
293	aaa tac gaa gtt ggc att ttt gtg cat gga acc acc act tcg gaa aac	1959		
294	Lys Tyr Glu Val Gly Ile Phe Val His Gly Thr Thr Thr Ser Glu Asn			
295	335 340 345			
297	cat ggg aat tat tca gcg caa gtt ggg gcg tcc cag gcg gca aag ttt	2007		
298	His Gly Asn Tyr Ser Ala Gln Val Gly Ala Ser Gln Ala Ala Lys Phe			
299	350 355 360			
301	aca gta aca ccc aat gct cct tcg ata acc ctc aaa ctt ggt gac tac	2055		
302	Thr Val Thr Pro Asn Ala Pro Ser Ile Thr Leu Lys Leu Gly Asp Tyr			
303	365 370 375 380			
305	gga gaa gtc aca ctg gac tgt gag cca agg agt gga ctg aac act gaa	2103		
306	Gly Glu Val Thr Leu Asp Cys Glu Pro Arg Ser Gly Leu Asn Thr Glu			
307	385 390 395			
309	gcg ttt tac gtc atg acc gtg ggg tca aag tca ttt ctg gtc cat agg	2151		
310	Ala Phe Tyr Val Met Thr Val Gly Ser Lys Ser Phe Leu Val His Arg			
311	400 405 410			
313	gag tgg ttt cat gac ctc gct ctc ccc tgg acg tcc cct tcg agc aca	2199		
314	Glu Trp Phe His Asp Leu Ala Leu Pro Trp Thr Ser Pro Ser Ser Thr			
315	415 420 425			
317	gcg tgg aga aac aga gaa ctc ctc atg gaa ttt gaa gag gcg cac gcc	2247		
318	Ala Trp Arg Asn Arg Glu Leu Leu Met Glu Phe Glu Glu Ala His Ala			
319	430 435 440			
321	aca aaa cag tcc gtt gtt gct ctt ggg tca cag gaa gga ggc ctc cat	2295		
322	Thr Lys Gln Ser Val Val Ala Leu Gly Ser Gln Glu Gly Gly Leu His			
323	445 450 455 460			

VERIFICATION SUMMARY

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Input Set : A:\PTO.txt

Output Set: N:\CRF3\04182001\I826115.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:136 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:7, CDS LOCATION: (25)...  
(54)